

PATENT APPLICATION

## HE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Shinya HIROTA et al.

Group Art Unit: 3748

Application No.: 10/088,476

Examiner: T. NGUYEN

Filed: March 20, 2002

Docket No.: 112340

For:

**EXHAUST GAS PURIFICATION DEVICE** 

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- $\boxtimes$ This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection, Notice of Allowance, or other action that closes prosecution (e.g., Quayle Action), but before payment of the Issue Fee. Attached is our Check No. 155423 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
  - $\boxtimes$ I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).
- $\boxtimes$ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.
- $\boxtimes$ 3. A concise explanation of the relevance of the non-English language references appears in the Appendix attached hereto.

- 4. English-language Abstracts of the non-English language references are attached hereto.
- 5. A computer-generated English translation of the following Japanese references has been obtained from the website of the Japanese Patent Office ([http://www.jpo.go.jp]), and is attached, but has not been reviewed for accuracy. See References 1 and 2.

Respectfully submitted,

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JAO:SPC/eks

Date: June 25, 2004

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE
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## Information List (Form 1)

US Serial No.	10/088,476 and Please advise
Our ref:	TYT-J759-US and TYT-J759-US-1

The following is a List of References provided by the Applicant. Please file an Information Disclosure Statement using this information.

Document Number	Publication Date	Brief Explanation or Page(s) & Line(s) of Related Part(s)
Unexamined JP Patent Publication (Kokai) No. 7-269328	Oct. 17, '95	When it is judged that filter 105 should be regenerated, a heater 110 is activated to burn particulates trapped in filter 105. Before heater 110 is activated, a valve 106 is closed and a valve 108 is opened to decrease an amount of exhaust gas flowing into filter 105, thereby avoiding deterioration of filter 105 by heat generated from burning of the trapped particulates.  According to the second embodiment, during the regeneration of filter 105, air is introduced from an air pump 116 into exhaust gas flowing into filter 105 in order to supply enough oxygen to burn the trapped particulates.

A. AOKI, ISHIDA & ASSOCIATES

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The following is a List of References provided by the Applicant. Please file an Information Disclosure Statement using this information.

		Brief Explanation or				
Document Number	Publication Date	Page(s) & Line(s) of				
		Related Part(s)				
Unexamined JP	March 28, '00	Three way catalysts 6C				
Patent Publication		and 6B and NOx catalyst				
(Kokai)		6A are arranged in an				
No. 2000-87736		exhaust pipe 3. NOx				
10. 2000 07.00		catalyst comprises Ba				
		and Pt carried on Al <sub>2</sub> O <sub>3</sub> .				
		When a temperature of				
		the NOx catalyst is				
	·	higher than a				
		predetermined				
		temperature and an				
		atmosphere in the NOx				
·		catalyst is lean, an				
		amount of the gas				
		flowing into the NOx				
		catalyst is increased by				
		fully opening an idle				
		speed control valve 13				
		and an air bypass				
		valve 14 and by				
·		supplying air from air				
		supply devices 15 and 16				
		into exhaust gas. By				
		increasing the amount of				
	1	the gas flowing into the				
		NOx catalyst, the NOx				
		catalyst is cooled and				
		the temperature thereof				
		is decreased.				
		·				
Unexamined JP	Oct. 17, '95	Fig. 3 shows an engine				
Patent Publication		comprising a particulate				
(Kokai)		filter 105 according to				
No. 7-269328		the first embodiment.				
10. 7-207520						
		Fig. 12 shows an				
		engine comprising a				
		particulate filter 105				
		according to the second				
		embodiment.				
		empodiment.				
		OUT TOUTDAY ASSOCIATES				

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Form PTO-1449 (REV. 8-83)	- (%	US Dept. of Commerce PATENT & TRADEMARK OFFICE	1	ATTY DOCKET NO. 112340				APPLICATION NO. 10/088,476			
INFOR	MATI	ON DISCLOSURE STATEMENT									
(Use several sheets if necessary)			APPLICANT(S) Shinya HIROTA et al.								
				FILING March 2				GROI 3748	JP	*****	
		U.S. PA	ATEN	T DOC	JMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	D.	ATE NAME			CLASS	SUB CLASS			
										,	
	I	FOREIGN	I PAT	ENT DO	CUMENT	3					
		DOCUMENT NUMBER	D.	ATE		cou	NTRY		CLASS	SUB CLASS	
	1	JP 7-269328 (w/Abstract & Translation)	10/17	/1995	JAPAN						
	2	JP 2000087736 (w/Abstract & Translation)	03/28	/2000	JAPAN						
		OTHER DOCUMENTS (Inclu	uding	Author,	Title, Date,	Pertinent	Pages, etc.)				
		·									
EXAMINER							DATEC	CONSIDI	ERED		
		citation considered, whether or not cital						v line th	rough citati	on if not in	

Date: June 25, 2004